Canhua Liu

List of Publications by Year in Descending Order

81 papers	4,696 citations	25 h-index	68 g-index
85 ext. papers	5,521 ext. citations	6.8 avg, IF	5.12 L-index

#	Paper	IF	Citations
81	Discovery of segmented Fermi surface induced by Cooper pair momentum. *Science*, **2021**, 374, 1381-1385	33.3	4
80	Sierpi□ki Structure and Electronic Topology in Bi Thin Films on InSb(111)B Surfaces. *Physical Review Letters*, **2021**, 126, 176102	7.4	2
79	Anisotropic gapping of topological Weyl rings in the charge-density-wave superconductor In TaSe2. *Science Bulletin*, **2021**, 66, 243-249	10.6	6
78	Braiding Majorana zero mode in an electrically controllable way. *Journal Physics D: Applied Physics*, **2021**, 54, 424003	3	0
77	Resolving Quinoid Structure in Poly(-phenylene) Chains. *Journal of the American Chemical Society*, **2020**, 142, 10034-10041	16.4	8
76	A tunable and unidirectional one-dimensional electronic system Nb2n+1SinTe4n+2. *Npj Quantum Materials*, **2020**, 5,	5	3
75	One dimensional electronic states in mirror twin boundaries of Bi (1´1´1). *Applied Surface Science*, **2020**, 512, 145644	6.7	3
74	Robust Hot Electron and Multiple Topological Insulator States in PtBi. *ACS Nano*, **2020**, 14, 2366-2372	16.7	3
73	Coupling of superconductivity and Coulomb blockade in Sn nanoparticles. *Nanotechnology*, **2020**, 31, 305708	3.4	1
72	Engineering of Magnetic Coupling in Nanographene. *Physical Review Letters*, **2020**, 124, 147206	7.4	21
71	Influence of disorder on superconductivity in the Si(111)- 7□3-In surface. *Applied Physics Letters*, **2020**, 117, 172601	3.4	1
70	Designer spin order in diradical nanographenes. *Nature Communications*, **2020**, 11, 6076	17.4	15
69	Strain Tunable Semimetal-Topological-Insulator Transition in Monolayer 1T^{□-WTe_{2}. *Physical Review Letters*, **2020**, 125, 046801	7.4	23
68	Precise Control of □Electron Magnetism in Metal-Free Porphyrins. *Journal of the American Chemical Society*, **2020**, 142, 18532-18540	16.4	13
67	Multiple In-Gap States Induced by Topological Surface States in the Superconducting Topological Crystalline Insulator Heterostructure Sn_{1-x}Pb_{x}Te-Pb. *Physical Review Letters*, **2020**, 125, 136802	7.4	3
66	Molecular beam epitaxy of superconducting PdTe2 films on topological insulator Bi2Te3. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1	3.6	6
65	Diamagnetic response of a superconducting surface superstructure: Si(111)-□□-In. *Physical Review B*, **2019**, 99,	3.3	6

64	On-Surface Synthesis of Iron Phthalocyanine Using Metal-Organic Coordination Templates. *ChemPhysChem*, **2019**, 20, 2394-2397	3.2	3
63	Scanning tunneling microscopic investigation on morphology of magnetic Weyl semimetal YbMnBi2. *Chinese Physics B*, **2019**, 28, 077302	1.2	5
62	Diamagnetic Response of Potassium-Adsorbed Multilayer FeSe Film. *Physical Review Letters*, **2019**, 123, 257001	7.4	2
61	Surface Structure and Reconstructions of HgTe (111) Surfaces. *Chinese Physics Letters*, **2018**, 35, 026802	1.8	3
60	Metastable Face-Centered Cubic Structure and Structural Transition of Sn on 2H-NbSe 2 (0001). *Chinese Physics Letters*, **2018**, 35, 066802	1.8	4
59	Quasiparticle interference and nonsymmorphic effect on a floating band surface state of ZrSiSe. *Nature Communications*, **2018**, 9, 4153	17.4	31
58	Coexistence of Topological Edge State and Superconductivity in Bismuth Ultrathin Film. *Nano Letters*, **2017**, 17, 3035-3039	11.5	46
57	Electronic structure of Ba (Zn0.875Mn0.125)2As2. *Applied Physics Letters*, **2017**, 111, 062106	3.4	3
56	Development of in situ two-coil mutual inductance technique in a multifunctional scanning tunneling microscope. *Review of Scientific Instruments*, **2017**, 88, 073902	1.7	13
55	Atomically flat superconducting NbN thin films grown on SrTiO3 (111) by plasma-assisted MBE. *APL Materials*, **2017**, 5, 126107	5.7	7
54	Majorana Zero Mode Detected with Spin Selective Andreev Reflection in the Vortex of a Topological Superconductor. *Physical Review Letters*, **2016**, 116, 257003	7.4	343
53	Microstructural characterization of sulfur-doped Bi2Te3 crystals. *Materials Characterization*, **2016**, 114, 172-178	3.9	9
52	A Novel Arc Fault Detector for Early Detection of Electrical Fires. *Sensors*, **2016**, 16,	3.8	30
51	Vectorial mapping of noncollinear antiferromagnetic structure of semiconducting FeSe surface with spin-polarized scanning tunneling microscopy. *Applied Physics Letters*, **2016**, 108, 061601	3.4	9
50	Topologically nontrivial bismuth(111) thin films. *Scientific Reports*, **2016**, 6, 21326	4.9	29
49	Experimental detection of a Majorana mode in the core of a magnetic vortex inside a topological insulator-superconductor Bi(2)Te(3)/NbSe(2) heterostructure. *Physical Review Letters*, **2015**, 114, 017001	7.4	317
48	Epitaxial growth of two-dimensional stanene. *Nature Materials*, **2015**, 14, 1020-5	27	1153
47	Development of micro-four-point probe in a scanning tunneling microscope for in situ electrical transport measurement. *Review of Scientific Instruments*, **2015**, 86, 053903	1.7	16

46	Surface states in lightly hole-doped sodium cobaltate Na1−xCoO2. *Physical Review B*, **2015**, 91,	3.3	2
45	Superconductivity above 100 K in single-layer FeSe films on doped SrTiO3. *Nature Materials*, **2015**, 14, 285-9	27	770
44	Evolution of the electronic structure in ultrathin Bi(111) films. *Physical Review B*, **2015**, 91,	3.3	24
43	Electronic structure of a superconducting topological insulator Sr-doped Bi2Se3. *Applied Physics Letters*, **2015**, 107, 171602	3.4	46
42	Strongly compressed Bi (111) bilayer films on Bi2Se3 studied by scanning tunneling microscopy. *Applied Physics Letters*, **2015**, 107, 121601	3.4	9
41	Artificial Topological Superconductor by the Proximity Effect. *Physical Review Letters*, **2014**, 112,	7.4	162
40	The fate of the 2√3 × 2√3R(30°) silicene phase on Ag(111). *APL Materials*, **2014**, 2, 092513	5.7	31
39	Electronic structure of black phosphorus studied by angle-resolved photoemission spectroscopy. *Physical Review B*, **2014**, 90,	3.3	73
38	Creating Majorana fermions in topological insulators. *National Science Review*, **2014**, 1, 36-37	10.8	2
37	Interface structure of a topological insulator/superconductor heterostructure. *New Journal of Physics*, **2014**, 16, 123043	2.9	20
36	Various atomic structures of monolayer silicene fabricated on Ag(111). *New Journal of Physics*, **2014** , 16, 075006	2.9	61
35	Nanofiber alignment during electrospinning: Effects of collector structures and governing parameters **2014**,		6
34	Magnetic anisotropy of van der Waals absorbed iron(II) phthalocyanine layer on Bi2Te3. *Physical Review B*, **2014**, 90,	3.3	9
33	Orbit- and atom-resolved spin textures of intrinsic, extrinsic, and hybridized Dirac cone states. *Physical Review B*, **2014**, 89,	3.3	13
32	Fully gapped s-wave-like superconducting state and electronic structure in Ir0.95Pd0.05Te2 single crystals with strong spin-orbital coupling. *Physical Review B*, **2014**, 89,	3.3	14
31	Creation of helical Dirac fermions by interfacing two gapped systems of ordinary fermions. *Nature Communications*, **2013**, 4, 1384	17.4	71
30	Quasiparticle dynamics in reshaped helical Dirac cone of topological insulators. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 2758-62	11.5	80
29	Identifying magnetic anisotropy of the topological surface state of Cr(0.05)Sb(1.95)Te(3) with spin-polarized STM. *Physical Review Letters*, **2013**, 111, 176802	7.4	30

28	Carrier density dependence of the magnetic properties in iron-doped Bi2Se3 topological insulator. *Journal of Applied Physics*, **2013**, 113, 043926	2.5	21
27	The coexistence of superconductivity and topological order in the Bi□Se□thin films. *Science*, **2012**, 336, 52-5	33.3	371
26	Spatial and energy distribution of topological edge states in single Bi(111) bilayer. *Physical Review Letters*, **2012**, 109, 016801	7.4	246
25	Carriers dependence of the magnetic properties in magnetic topological insulator Sb1.95□BixCr0.05Te3. *Applied Physics Letters*, **2012**, 101, 072406	3.4	20
24	Large magnetic moment of gadolinium substituted topological insulator: Bi1.98Gd0.02Se3. *Applied Physics Letters*, **2012**, 100, 242403	3.4	43
23	Electronic transport of Au-adsorbed Si(111)□□-Ag: Metallic conduction and localization. *Physical Review B*, **2008**, 78,	3.3	16
22	Growth of atomically flat nanofilms and surface superstructures of intrinsic liquid alloys. *Applied Physics Letters*, **2008**, 92, 143116	3.4	
21	The excitation of one-dimensional plasmons in Si and Au-Si complex atom´wires. *Nanotechnology*, **2008**, 19, 355204	3.4	9
20	Disappearance of the quasi-one-dimensional plasmon at the metal-insulator phase transition of indium atomic wires. *Physical Review B*, **2008**, 77,	3.3	20
19	Self-alignment of Co adatoms on in atomic wires by quasi-one-dimensional electron-gas-meditated interactions. *Physical Review Letters*, **2008**, 101, 146104	7.4	26
18	Band-bending inhomogeneity of Au adsorbed Si(111)-3□-Ag surface evaluated with Si 2p core-level spectra. *Surface Science*, **2008**, 602, 3316-3322	1.8	2
17	Electron-phonon interaction and localization of surface-state carriers in a metallic monolayer. *Physical Review Letters*, **2007**, 99, 146805	7.4	37
16	Interaction between adatom-induced localized states and a quasi-two-dimensional electron gas. *Physical Review Letters*, **2006**, 96, 036803	7.4	46
15	Self-assembly of two-dimensional nanoclusters observed with STM: From surface molecules to surface superstructure. *Physical Review B*, **2006**, 74,	3.3	14
14	Direct measurement of the Hall effect in a free-electron-like surface state. *Physical Review B*, **2006**, 73,	3.3	14
13	Electrical Resistance of a Monoatomic Step on a Crystal Surface. *Hyomen Kagaku*, **2006**, 27, 182-187		
12	Interaction between Adatom-induced Localized States and Quasi-two-dimensional Electron Gas. *Hyomen Kagaku*, **2006**, 27, 702-707		
11	Scanning tunnelling microscopy observations at initial stage of Cs adsorption on Si(111)-$sqrt{3}$ □ $sqrt{3}$-Ag surface. *Surface and Interface Analysis*, **2005**, 37, 101-105	1.5	4

10	Evolution of Fermi surface by electron filling into a free-electronlike surface state. *Physical Review B*, **2005**, 71,	3.3	51
9	Atomic scale observation of a two-dimensional liquid-solid phase transition on the Si(111)□□-Ag surface. *Physical Review B*, **2005**, 71,	3.3	17
8	.RAD.21* .RAD.21 phase formed by Na adsorption on Si(111).RAD.3* .RAD.3-Ag and its electronic structure. *E-Journal of Surface Science and Nanotechnology*, **2005**, 3, 107-112	0.7	12
7	Electrical resistance of a monatomic step on a crystal surface. *Physical Review Letters*, **2004**, 93, 236801	7.4	80
6	Step Edges as Reservoirs of Ag Adatom Gas on a Si(111) Surface. *Japanese Journal of Applied Physics*, **2003**, 42, 4894-4897	1.4	13
5	Si(111)-$sqrt{21}timessqrt{21}$-(Ag+Cs) Surface Studied by Scanning Tunneling Microscopy and Angle-Resolved Photoemission Spectroscopy. *Japanese Journal of Applied Physics*, **2003**, 42, 4659-4662	1.4	10
4	Electronic evidence of asymmetry in the Si(111)□□-Ag structure. *Physical Review B*, **2003**, 68,	3.3	56
3	Two-Dimensional Surface Adatom of Gas Phase and Core-Level Photoemission Spectroscopy. *Hyomen Kagaku*, **2003**, 24, 556-562		
2	Moir□pattern-modulated electronic structures in Sb2Te3/graphene heterostructure. *Nano Research*,1	10	2
1	Topological Defects Induced High-Spin Quartet State in Truxene-Based Molecular Graphenoids. *CCS Chemistry*,1-19	7.2	1